



TEST RESULTS OF STEEL

Lab ID : CP-2018-03-05-14 Date: 07-03-2018
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements of Mallasandra Govt School Compound other Development works in Mallasandra ward no. 13, Shettyhalli Sub division.
Agency : Technical Manager, KRIDL, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' Block Rajajinagar, Bangalore-560010
Customer's Reference : BBMP/EE/PD/WO/0035/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-03-2018
Sample ID No : 2018-03-05-14 /05
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 06-03-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.386	549	671	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.620	568	682	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.863	581	695	20.0%	Satisfactory	Satisfactory

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

Asst. Executive Engineer

Project Sub Division-I Page 1/1

Dasarahalli Zone, *End of Report*

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-05-14 Date: 08-03-2018

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Mallasandra Govt School Compound other Development works in Mallasandra ward no. 13, Shettyhalli Sub division.

Agency : Technical Manager, KRIDL, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' Block Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/PD/WO/0035/2017-18

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 05-03-2018

Sample ID No : 2018-03-05-14 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 05-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	322	322	2.1	97.9	90-100
3	20 mm	5643	5965	39.8	60.2	30-70
4	10 mm	4663	10628	70.9	29.1	10-35
5	4.75 mm	4025	14653	97.7	2.3	0-5
6	Pan	347	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-05-14

Date: 08-03-2018

Sample ID No : 2018-03-05-14 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.55	—
5	Bulk Density(Compacted) (Kg/l)	1.59	—
6	Water Absorption(%)	0.21	—

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R. Karthik Rechan

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Authorized Signatory

Quality Manager

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****End of Report****

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Customer Reference : BBMP/EE/PD/WO/0035/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-03-2018
Sample ID No : 2018-03-05-14 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	243	243	4.9	95.1	90-100
3	10 mm	2544	2787	55.7	44.3	25-55
4	4.75 mm	1768	4555	91.1	8.9	0-10
5	Pan	445	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-05-14

Date: 08-03-2018

Sample ID No : 2018-03-05-14 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.47	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.2	—
7	Aggregate crushing Value(%)	22.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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